

(4) 20.
8803

ALPHABETICAL INDEX

FOR

VOLUME II

MINING CONGRESS JOURNAL

A	B
Accident form.....	154
Accounting, Uniform.....	160
Aetna chemical plant (cut).....	132
After the War.....	98
Alabama mine safety work.....	311
Aluminum, new uses.....	135
Alaska to Uncle Sam (poem).....	122
Alaska—editorial.....	29
mines report.....	220
agriculture.....	133
Severe winter in.....	204
summer's work successful.....	502
Yukon trip.....	372
coal leasing.....	270
mining in 1916.....	310
metal output.....	384
American Mining Congress, Bureau of	
Mining Economics.....	273
convention.....	365, 393, 429, 472
History (with cuts).....	481
Offices.....	489
Arizona exhibit.....	501
American Institute meeting.....	497
Anaconda Commission meets.....	107
Anthracite Map.....	94
strike.....	307
used in many States.....	490
Production of.....	496
Use of machines.....	513
Anticlinical theory.....	522, 526
Antimony, zinc content.....	272
treatment.....	122
prices.....	93
Apex law.....	363
condemned.....	394
opinion by Knight.....	314
in Philippines.....	68
Appropriations, U. S. G. S.....	120
hog cholera.....	131
Arizona, asbestos mining.....	327
mineral output.....	322
copper production.....	418
New ore bodies.....	63
Chapter meeting.....	20
Arkansas "lakes".....	120
Arsenic, chance for profit.....	120
Asbestos production.....	327
in Georgia.....	307
Arizona output.....	149
Ball, Max W.....	535
promoted.....	173
(cut).....	403
Bastin, E. S. (cut).....	176
Barium mines visited.....	276
Bauxite in Georgia.....	208
Big Horn basin report.....	114
Birdseye narrates adventure.....	75
Bishop, Roy A.....	536
Black Hills folio.....	76
Blast furnace practice.....	519
Bolivian tin.....	73
Branner, Dr. J. C., honored.....	124
Bristol district.....	436
Bully Hill smelter (cut).....	63
Bureau of Mining Economics.....	273
Bureau of Mines, Preparedness in.....	161
and labor.....	117
Safety First train.....	269
concerning patents.....	307
exhibit at Chicago.....	527
scientific societies.....	536
fire.....	131
exhibit at chemical show.....	471
saves oil industry \$50,000,000.....	479
rescue and recovery operations.....	491
library.....	500
official's life saved.....	501
exhibit at Detroit.....	506
Burrell, Geo. A., sketch.....	361
Butler, B. S.....	233
Butte Sanitary Survey.....	275
C	
California, hookworm in mines.....	304
Safety Bear.....	274
cooperation.....	176
inspection.....	255
Callbreath, J. F. (cut).....	473, 534
Calumet and Hecla anniversary.....	366
Calumet leaching plant.....	249
Canal mineral tonnage.....	454
Carborundum materials.....	78
Car supply.....	421, 449
Castle Rock folio.....	151
Cement output.....	322
Chemical statistics.....	512
Cherry Creek district.....	440
Chromite, California.....	49, 122

Coal, Alaskan leasing.....	270	Cryolite.....	281
operators confer with Federal Trade commission.....	278	Cushing, Geo.....	540
wage scale.....	119		
consumption statistics.....	181	D	
Strike Commission.....	174	Davis, Chas. A., dies.....	226
Future of.....	351	Delegates appointed by president.....	475
Railroad statistics.....	366	Dering, C. L.....	527
Taxation system.....	382	Detonators.....	244
statistics.....	168, 391	Devil's Tower.....	62
safety costs.....	550	Disease among miners.....	245
cooperation.....	526	Dolly Varden district.....	441
waste in retailing.....	536	Douglas, Walter—editorial.....	480, 521
Idle mines.....	526	Cartoon of.....	527
Washing of.....	528	Du Pont, protests against tax.....	376
trade better.....	530	Dynamite prices.....	310
price regulation.....	534		
Coking of.....	535	E	
labor and price.....	493	Editorials, Annual convention.....	287
Machines in mining.....	494	Cooperation.....	287
Ohio freight rates.....	480	Trade Commission request.....	288
Shooting from solid.....	489	Foster Bill.....	288
Kansas production.....	490	Appropriation cut.....	288
competition with oil.....	496	Criminal waste.....	289
strike increases stock.....	498	Alaskan Railway.....	289
Semi-bituminous.....	499	Armor plate.....	290
Canadian competition.....	501	Mining Congress Journal.....	291
in Oregon.....	502	Discrimination against mining.....	291
in Tennessee.....	502	Accident figures.....	292
in Kentucky.....	508	Sundry Civil Bill.....	293
selling at a loss.....	508	Tavener Bill.....	333
strikes and production.....	512	Collective bargaining.....	334
classifications.....	513	Trade and efficiency.....	334
Electrification of C. M. & St. P.....	513	Markets.....	335
in Iowa.....	514	Government pay.....	335
case in Supreme Court.....	516	Tungsten prices.....	335
elimination of refuse.....	519	Conservation.....	445
in Alabama.....	517	Mine safety.....	445
Combustion of.....	233	Public lands.....	445
production slackens.....	129	Potash.....	445
dust experiments.....	82	Arbitration.....	445
explosibility.....	169	Mining law revision.....	445
shipments.....	427	Copper tax.....	369
in Kentucky.....	432	Convention.....	370
in Virginia.....	438	By-laws.....	370
tar dyes.....	514	Mine manufacturing.....	371
lands suit.....	225	M. D. Foster.....	371
Coke, in U. S. in 1915.....	397	Bureau of Mines.....	371
for heating.....	392	Revenue bill.....	407
ovens, by-product.....	220	Mid-year statements.....	408
Colorado Metal Mining Association.....	136	Smokeless firing of coal.....	408
Conservation Congress meets.....	117, 284	Mr. Lane and Mr. Pinchot.....	409
Cooperative selling agency.....	506	Coal problems.....	409
Copper, matte case.....	344	Cooperation and statistics.....	410
Nevado production.....	316	Nineteenth convention.....	521
production.....	311	Salary scale.....	521
estimate on.....	272	Walter Douglas.....	521
tax on.....	349, 387	Balanced attendance.....	521
in Germany.....	122	Exhibitors.....	522
profits.....	540	Carl Scholz.....	522
smelters.....	490	Compulsory arbitration.....	410
advance in metallurgy.....	508	Joplin.....	411
California law.....	508	Vital issues to come up.....	469
production.....	511	Efficiency a necessity.....	469
mines, deaths in.....	173	Only reputable firms allowed to advertise.....	469
Cottrell, F. G.....	281, 494, 530	Big things being done by coopera- tive effort.....	469
Crews, Ralph (cut).....	501	Engineers name committee.....	66
Crocoite.....	262		
Crosby, Geo. H.....	536		

Graphite.....	244
Graphite importations.....	48
Graphite prospects.....	265
Graphite situation.....	271
Graphite studies.....	165

H

Harassed by labor.....	280
Henderson on potash.....	93
Hess, F. L., on tungsten.....	231
High speed steel.....	254
Holmes, J. H., on tungsten.....	232

I

Idaho's metal output.....	38
Iron and steel trade.....	212
Iron for France.....	58
Iron-making Bacteria.....	356
Iron ore.....	53
Iron ore production.....	116
Iron ore rates.....	222
Iron works in orient.....	326

J

Japanese steel.....	160
Japanese steel plans.....	196
Joplin district.....	503

L

Labor in copper mines.....	94
Lead.....	146, 148
Lead market.....	159
Lead prices (chart).....	237
Lead production.....	20
Lead situation.....	280
Lead smelter.....	222
Lead stocks.....	172, 234
Leasing bill.....	400

M

Magnesite.....	130, 245, 402
Magnesite, Austrian.....	355, 358
Magnesite bill passes.....	337
Magnesite construction important.....	489
Magnesite duty.....	308
Magnesite investment.....	274
Magnesite mines in Austria.....	337
Magnesite reserves.....	273
Magnesite situation.....	243
Magnesite's tariff needs.....	313
Magnesite, uses of.....	487
Manganese.....	83, 172, 192, 245, 276, 369, 415, 424
Manganese imports.....	69
Mesothorium.....	14
Metal stocks.....	102
Mica in Alabama.....	266
Minerals abroad.....	115
Minerals at peace conference.....	115
Mineral bulletin.....	310
Mineral industries.....	201
Mineral interdependence.....	369
Mineral leasing.....	86
Mineral leasing bill.....	400
Mineral market.....	126
Mineral resources.....	48

Mineral resources report.....	198
Mineral separation.....	131, 275, 482
Minerals separation decision.....	235
Mining claims.....	252
Monazite imports.....	69
Montana's metal output.....	36

N

Navy's spelter.....	127
Nevada's metal production.....	26
New Mexico's metal output.....	23
Nitrate disposal.....	90
Nitrate plant operation urged.....	502
Nitrate restrictions.....	271
Nitrate stocks.....	138
Nitrogen administration.....	118
Nitrogen commission.....	349
Non ferrous sales.....	308

O

Oregon's metal output.....	30
----------------------------	----

P

Phosphate price.....	369
Pig iron.....	407
Platinum.....	273
Platinum, occurrence of.....	495
Platinum, physical properties of.....	502
Potash.....	32
Potash bill.....	92, 221, 244, 350
Potash hearing.....	230
Potash production analyzed.....	355
Pyrites.....	83, 118, 125, 245
Pyrites importation.....	66
Pyrites situation.....	253

Q

Quicksilver.....	125, 244, 266
Quicksilver supremacy.....	209

R

Restrictions removed.....	241
---------------------------	-----

S

Saline takes.....	350
Sharp on potash.....	93
Silver.....	431
Silver exports.....	196
Silver for India.....	194
Silver its future.....	197
Silver mines open.....	266
South Dakota's gold yield.....	28
Spelter.....	127, 254
Spelter economies.....	171
Spelter stocks.....	171
Steel.....	408, 415
Steel exports.....	306
Steel prices.....	115
Steel practice.....	308
Steel production in Germany.....	204
Sulphur.....	202
Sulphur monopoly lost.....	179
Sulphuric acid.....	34, 125, 163, 202
Sulphuric acid production.....	222
Swedish iron exports.....	507

T	
Talc production.....	350
Texas metal output.....	18
Tin, exports of.....	10
Tin imports.....	273
Tin orders.....	265
Tin ore restrictions.....	280
Tin restrictions.....	164, 241
Tin situation.....	117
Tin stagnate.....	195
Treasury gold report.....	73, 88
Tungsten.....	83, 139, 270
Tungsten hearing.....	231
Tungsten tariff.....	265

U	
Utah's metal output.....	37

W	
Wages.....	80

War department surplus.....	228
War minerals.....	480, 483
War minerals claims.....	188, 239
War minerals findings.....	234
War minerals relief.....	19, 76, 126
War minerals resolutions.....	19
World's gold production.....	53
World's minerals.....	103

Y	
Year's mineral output.....	34

Z	
Zinc.....	148, 245
Zinc bill passes.....	307
Zinc chapter.....	98
Zurich exchange.....	326
Zinc production.....	20, 338
Zinc reduction capacity.....	140

COAL

A	
Anthracite production.....	25, 63

B	
Bituminous production.....	63, 69
British fuel problems.....	67
By-product coke.....	63

C	
Canadian coal.....	33
Carnegie Institute.....	270
Central Committee.....	496
Coal car shortage.....	317
Coal contracts.....	160
Coal department opened.....	196
Coal diversion.....	412
Coal export situation.....	211
Coal exportation.....	402
Coal in France.....	20
Coal investigation.....	277
Coal legislation urged.....	213
Coal loadings.....	133
Coal miners' demands.....	351
Coal mining education.....	270
Coal output.....	24
Coal prices.....	147
Coal production.....	415
Cost reports.....	98
Coal shipments.....	228
Coal Tar Bill passed.....	350
Coal tariff.....	273
Coal's immediate need.....	95
Coal's potentialities.....	49
Coke.....	179
Coke production.....	68
Consolidation Coal Co.....	137
Cooperation urged.....	138
Clay products savings.....	64
Committee statement.....	491
Cushing, G. H. (article).....	161

D	
Daylight saving.....	135

Demand light.....	132
District representatives.....	53

E	
Europe needs U. S. coal.....	336
European coal situation.....	267
European tariff.....	234
Exports analysed.....	65
Export coal.....	39, 189
Exports for Switzerland.....	236
Export restrictions.....	72
Export tariff.....	234
Exports to Denmark.....	394

F	
First aid contest.....	238
French mines destruction.....	66
Fuel Administration.....	24
Fuel priority.....	417

G	
Glass' statement.....	492
Griffith on anthracite.....	28

H	
Hines fuel policy.....	47
Hines on car shortage.....	317
Hines on coal contracts.....	160
Hines' statement.....	492

I	
Indian Reservations.....	250
Industrial stocks.....	178
Investigation of coal.....	304
Iron and steel stocks.....	179
Italy's coal shortage.....	57

L	
Labor—Taylor's views.....	304
Lehigh coal case.....	179
Leno mines.....	17
Lignite bill.....	30
Loadings.....	52, 65, 94, 415

M	
Mines and carriers.....	201
Morrow's letter.....	493

N	
National Coal Ass'n.....	193

O	
Operators' statement.....	490

P	
Pennsylvania costs.....	352
Pittsburgh meet.....	238
Prices.....	134
Prices and zones end.....	69
Production.....	130
Production at high mark.....	337
Profits.....	95
Public utilities stocks.....	178

R	
Railroads and mines.....	201
Railroad fuel.....	47
Railroad policy.....	102
Record custodian.....	72
Regulation ends.....	85
Reply to McAdoo.....	494
Requisitions cancelled.....	31,72
Restrictions amended.....	72
Retail stocks.....	179
Rice on European mining.....	343

S	
Senate coal probe.....	304
Shipping board plan.....	189
Shortage predicted.....	77
Smokeless for lakes.....	57
Stabilization of industry.....	74
Statistics needed.....	350
Stocks.....	178
Strike.....	490

T	
Taylor, H. N., testifies.....	304
Tendencies in coal.....	161
Tidewater shipments.....	89

V	
Vermont tale.....	392,419

W	
War lessons.....	76
War mineral claims.....	401
War mineral tariffs.....	390
Watson, Col. C. W.....	137
Weekly reports.....	68

Y	
Year's production.....	56

Z	
Zones.....	416

GENERAL

A	
Accident figures.....	242
Advisory Tax Board.....	306
Alaska chapter.....	33,139
Alaskan railroads.....	472
Alien property report.....	131,136
American Institute meeting.....	310
Anti-trust laws.....	250
Arizona chapter.....	36,397
Arizona conditions.....	355
Arizona legislation.....	180
Arizona Wage Scale.....	343
Arkansas gas.....	89
Atwood, L. R. (cut).....	85

B	
Bastin, E. S.....	48,399
Becker, Geo. F. (cut).....	166
Bethlehem steel.....	265
Bethune, John F.....	342
Bill of lading order.....	276
Blue Sky Law.....	404
Bolshevism.....	252,474
Bureau of Mines administration.....	269
Bureau of Mines chart.....	268
Bureau of Mines station.....	191
Burns, John T. (Special article).....	240
Burrell, Col. G. A. (cut).....	159
Business subnormal.....	165
Butte situation.....	326

C	
California chapter organized.....	54
California's new record.....	56
California section.....	421
Callbreath, J. F., testimony.....	404
Canadian Institute.....	132
Canadian labor conference.....	303
Capital's obligations.....	118
Carbon black.....	40
Carmichael, Norman.....	36
Catch-phrases.....	119
Census.....	431
Chamber of Commerce of U. S.....	194
Channing, J. P. (address).....	173
Chemical warfare.....	200
Clausen, John, special article.....	379
Colorado chapter.....	58,406
Commission.....	487
Committees.....	372
Compensation payments.....	70
Conklin, A. B., special article.....	395
Contingent fee clause.....	177
Convention (1919).....	370,462
Cooperation.....	78
Corlett, R. D. (cut).....	373
Cottrell, Dr. F. G.....	91
Cuban Geological Survey.....	164
Cummins Bill.....	339,432
Cushing, Geo. H. (special article).....	119,
	277, 422

D		Industrial conference named.....	488
Demurrage rules.....	233	Industrial democracy.....	240
Department of labor.....	170	Industrial exposition.....	252
Dickey, E. A., special article.....	393	Industrial relations.....	250
Directors' meeting.....	11	Interior department.....	250
Doheny, E. L. (cut).....	12	J	
Doheny passport.....	276	Jenkins, S. H., reelected.....	202
Door of opportunity.....	199	Joplin chapter.....	98
Dyestuffs.....	245	Joyes, Col. J. W.....	349
E		K	
Economic liaison committee.....	431	Kansas chapter.....	414
Education.....	252	Katz, F. J. (cut).....	451
Eliot on labor.....	118	Kavanaugh, W. K. (cut).....	371
Emergency tariff hearings.....	229	Kerosene exports.....	342
Energy resources.....	354	Kerosene stocks declining.....	356
Engineer conference.....	173	Kiel, Henry W. (cut).....	370
Exhibitors.....	450	Krupp plant.....	303
Exhibitors at Convention.....	485	L	
Experiment stations.....	468	Labor.....	245
Export list.....	269	Labor and capital.....	60
Exposition.....	372	Labor and the market.....	344
F		Labor bills.....	438
Fake stocks.....	171, 273	Labor conditions.....	118
Fall line.....	272	Labor conference.....	406
Pay, A. H., address.....	242	Labor decisions.....	68
Federal Trade Commission.....	78, 98, 428	Labor exodus.....	209
Ferguson, Homer L.....	194	Land bills.....	443
Fertilizer control abandoned.....	489	Lawrie, H. N. (cut).....	266
Forests.....	250	Lawrie, H. N., special article.....	309, 382
Foster, M. D. (cut).....	126	Leasing.....	251
Fries, Col.....	200	Leasing bills.....	441
Fuel oil contracts.....	169	Leasing bill fails.....	86
Fuel oil market easy.....	348	Lee, Robt. E. (cut).....	373
G		Legal decisions.....	356
Gardner, Gov. F. D. (cut).....	370	Legislation.....	141, 214
Garland, M. M. (cut).....	117	Lenroot's railroad plan.....	302
Gas order.....	130	Lewis, J. O.....	90, 172
Gas order modification.....	87	Life blood of war.....	82
Gas regulations.....	85	Living costs analyzed.....	314
Gas waste.....	47	Living cost probe.....	128
Gasoline consumption.....	333	Lloyd, E. R. (cut).....	169
Gasoline production increased.....	355	Louisville order.....	103
Gasoline specifications.....	487	M	
Gasoline transportation.....	269	Machinery company attacked.....	274
Geological line.....	272	Machinery exhibits.....	450
Geologists resign.....	496	Manning, Van H.....	420
Goose Creek pool.....	56	Manning addresses chamber.....	27, 238
Groom, W. F. (cut).....	372	Mathewson, E. P. (cut).....	12, 495
H		Mexican decree.....	135
Hall, R. Dawson, special article.....	425	Mexican mining law.....	274
Hecter fuel.....	127	Mexican situation.....	464
Henderson, Senator (cut).....	90	Middle west order.....	130
Homestead entries.....	85	Middle west situation.....	104
Hood, O. P. (cut).....	47	Mine timbers.....	269
Howard, John C. (cut).....	11	Mining congress convention, 295, 370, 462	
I		Mining decisions.....	253
Import restrictions.....	195	Mining statutes.....	28
Inadequate compensation.....	496	Mining taxes.....	378
Income tax.....	378	Miscellaneous bills.....	444, 445, 446, 447, 448, 449
Industrial board.....	115, 123, 147	Missouri chapter.....	414
		Monterey plant.....	269



Experiment stations.....	433
probable location.....	310
selected.....	355
Explosives, permissible.....	360
saving in.....	129, 534

F

Fairbanks experiment station.....	355
Fatalities, report on.....	151
Fay, A. H., work praised.....	530
Federal legislation.....	72, 130
Ferberite, in Colorado.....	126
Ferguson, H. G.....	227
Field assignments.....	452
Field meets.....	400
in California.....	418
First Aid.....	531, 536
benefits of.....	132
training, example.....	124
progress.....	320
work standardized.....	160
Evansville incident.....	354
Juneau incident.....	357
Flotation, literature on.....	182
process in Utah.....	116
importance of.....	242
in Joplin district.....	189
Fluorspar, price.....	306
Foster's program.....	24
Foster, M. D. (cut).....	509
Foster Bill, opinion on.....	263
Forest regulations.....	199, 221
Forests, management of.....	332
Fossils.....	451, 457
Friedman, L. A. (cut).....	475
Fuel, saving of.....	367
for Government.....	415

G

Gann, Thos. M.....	534
Gas occurrence.....	121
measurement of.....	151
Gasoline supply and price.....	115
Gemmell, R. C., Utah Commission.....	191
Geographic names.....	186
Georgia asbestos production.....	307
Geologic time.....	325
Geological survey, military training	
camps.....	268
preparedness in.....	161
Gold production in South Dakota, 313.....	314
Golden gets mines station.....	68
Graphite, production of.....	225
in Texas.....	360
prices.....	150, 319
British order.....	275
stimulating.....	260
affected by war.....	131
Great Lakes, geological history of.....	397
Green sands, investigation of.....	149
Ground water.....	368
Gulfport exposition.....	121

H

Harder's experiments.....	63
Health precautions.....	442
Hess, Frank L. (cut).....	168
Hill, J. M., visits barium mines.....	276
Holmes Memorial Association.....	121

Holmes Safety Association.....	61, 155
Homestake mine production.....	310
Paige hypothesis.....	312
Hookworm in California.....	304
Hoover, Theo. J., to open New York	
office.....	498
Horner, Roy R.....	540
House committee scored.....	217
Houtzdale, coal mining.....	231
Hurley, Edward N., meets opera-	
tors.....	310, 490

I

Incidental geological finds.....	80
Industrial Relations Commission.....	97
Insurance in Pennsylvania.....	167
Interior building (cut).....	121
Iron pyrite.....	427
bacteria.....	354
output.....	319
tonnage through canal.....	494

J

James, H. G. (cut).....	507
James, G. B.....	527
Jones, Lewis M., dies.....	495, 540
Joplin zinc ores.....	62
Juneau operations.....	101

K

Kaolin in the U. S.....	120
Keith, Chas. S. (cut).....	475
Kemmerer, M. S. (cut).....	474
Kimball urges cooperation.....	14
Kithil, Karl (cut).....	355, 526
Knopf, Adolph, sketch.....	357
Korous, Miss Rose (cut).....	379

L

Labor Department report.....	21
Labor shortage.....	420, 522, 527
Laist, Frederick (cut).....	514
Lane praised.....	258
Larsen, E. S., Jr. (cut).....	443
Leasing legislation.....	213
Leasing bill, opinion on.....	267, 274, 477
Lead.....	444
production.....	100, 315
Legislation.....	259, 303, 385
Federal.....	328
Thoughts on.....	193
Library of Geological Survey.....	437
Lignite.....	404
in North Dakota.....	478
in Texas.....	508
investigation.....	212
western.....	234
Lupton, C. T. (cut).....	399

Mc

McCaskey, H. D., sketch with cut.....	314
on relationship of metals.....	434
McCord, Miss Julia L. V. (cut).....	437
McDowell, J. C. (cut).....	518

M

Magnesite mining.....	236
Magnesium.....	362
Maine has tin vein.....	21
Mammoth Copper Company.....	178

Manganese, buyers of.....	416	men protest.....	14
Manganese output.....	318	in Teton County, Mont.....	354
Manning, Van H.....	531, 535	in Montana.....	362
Harrisburg speech.....	169	shales, future of.....	358, 410, 513
reviews work of year.....	4	cost compared.....	313
made member Research Council.....	400	Oklahoma, spelter output.....	401
addresses mine workers.....	59	Ore sampling, standardization of, 359, 402	
western trip.....	433	Osage oil lands.....	400
meets operators.....	62		
urges law revision.....	90	P	
Maps for five cents.....	160	Paige, Sydney, sketch with cut.....	320
Maryland coals.....	478	Pan American papers to be printed.....	480
Matanuska coal.....	412	Panama slides.....	123
Metal mining methods.....	540	Paradox valley, storm in.....	126
Metal mine fatalities.....	173	Parsons, C. L. (cut).....	276
Metallurgists.....	126	on coke making.....	215
Metallic arsenic.....	53	Parker, E. W.....	526, 536
Metallurgy of Tungsten.....	20	Patents, policy as to.....	530
Methane in Indiana mine.....	160	Payne, Henry Mace.....	156, 518, 526
indicator.....	164	Permissible explosives.....	230
Mexican mining decrees.....	541	Petroleum, work of Bureau of Mines, 459	
Mica.....	451, 455	production.....	317
Mid-continental field.....	457	mid-continental field.....	514
Mineral production in 1915.....	9	altitude of wells.....	518
Montana.....	11	Bureau of.....	271
Oregon.....	12	logs on wells.....	282
Arizona.....	13	experiment station.....	505
Colorado.....	15	Phalen, W. C. (cut).....	279, 405
Idaho.....	17	Division of work.....	400
Texas.....	18	Phosphoric acid.....	395
Utah.....	19	Phosphorus fertilizer.....	360
Alaska.....	22	Phosphate output decreases.....	496
California.....	25	demand foreseen.....	519
Washington.....	28	Pitchblende, Colorado.....	198
South Dakota.....	39	Platinum.....	428, 436, 520
New Mexico.....	42	Platinum, Russian export tax.....	131
Nevada.....	52	Platinum in Spain.....	119
Mineral mine accidents.....	79, 135, 256	Pope, George S., sketch with cut.....	330
Mineral land decisions.....	187	Potash.....	425, 518
Mine inspectors meeting.....	109, 286	paper on, by W. C. Phalen.....	279
Mines exhibit at Panama.....	74	at cement plants.....	294
Mining law.....	526	Searles Lake.....	366
Mining law revision.....	209	work in.....	199
Moderwell, C. M. (cut).....	474	Prehistoric reptiles.....	94
Molybdenite duty.....	80	President asks cooperation.....	66
Molybdenum, Horton's report on.....	157	Prospects, price of.....	152
distribution.....	114, 219	Public interest in minerals.....	178
Montana, mineral production.....	325, 362	Publication committee, Bureau of	
Morrow on guide books.....	67	Mines.....	136
Mud laden fluid.....	478	Public land.....	419
		policy.....	505
N		Pyrites from Alaska.....	149
Nanadinite crystals.....	217		
Nevada mountains.....	438	Q	
camps, mapped.....	156	Quicksilver output.....	318
New Mexico, mineral output.....	323		
chapter formed.....	342	R	
Nickel.....	459, 537	Radium.....	118, 443, 508, 550
Nickel, in U. S.....	402	February delivery.....	149
Nickel, Canadian production.....	226	isolated twice.....	181
Nitrate.....	53	Riordan, D. M.....	195
		Randall resolution.....	240
O		Ransom, F. L. (cut).....	192
Oatman district survey.....	216	Rare metals.....	74
Ocean freight rates.....	231	Registration at Mining Congress con-	
Ohm, F. C., death of.....	192	vention.....	545
Oil, in Colorado and Utah.....	412	Rescue cars.....	405
prices.....	406	Research council.....	435
leasing manipulations.....	125	bill.....	549

Restorations.....	459,	531
Revenue bill.....	349,	387
Revision of laws, committee report ..	5	5
	136,	283
Foster wants action.....	494	494
hearing.....	55	55
Wickersham criticized.....	381	381
Rice, Geo. S. (cut).....	268	268
to Canada.....	540	540
inspection trip.....	454	454
Riter, Geo. W., dies.....	392	392
Rittman, Dr. W. F.....	53	53
process.....	132,	405
acknowledges aid.....	232	232
bulletin.....	257	257
Roberts, J. C. (cut).....	198	198
Rochester district.....	343,	422
Rock dust application.....	179	179
Roslyn coal fields.....	165	165
Russian survey.....	397	397
	S	
Safety first, origin of.....	174	174
exhibit.....	109,	196
week.....	69	69
train.....	269	269
results.....	356	356
tour ends.....	356,	400
Safety engineering.....	286	286
Safety work.....	449	449
Safety lamp.....	353	353
Saltpeter, price of.....	423	423
Salt Lake City, flotation center.....	65	65
Scheelite, production.....	308,	313
Scholz, Carl (cut).....	472	472
editorial.....	522	522
presented watch.....	533	533
complimented.....	534	534
promoted.....	106	106
testifies.....	223	223
Schrader, Frank C., sketch with cut.....	326	326
Seattle mining experiment station.....	529	529
Shaw, Eugene W. (cut).....	428	428
Sieventhal, C. E.....	219	219
Silver production.....	313	313
in Texas.....	309	309
Slate, in 1915.....	307	307
Sledge Tatum dies.....	63	63
Smelter rates.....	102	102
Smith, Philip S. (cut).....	402	402
Smith, Sumner S.....	129	129
Smith, Geo. Otis (cut).....	468	468
to speak in Maine.....	471	471
to address Geological Society.....	498	498
oil testimony.....	148	148
on public business.....	218	218
on water power.....	64	64
Smoke is needless.....	362	362
Soapstone, output.....	131	131
South Dakota, gold production.....	314	314
Spelter output increases.....	95	95
in Oklahoma.....	401	401
Spencer, A. C. (cut).....	282	282
Spofford, Mrs. Edith (cut).....	500	500
State geologists.....	399,	436
Steam shovels, in coal mining.....	391	391
Steel, small plants.....	367	367
Stream data.....	201	201
Strikes, address on.....	119	119

Strontium deposits.....	160
Sub-strata boring.....	114
Sulphur.....	397
demand for.....	357
in Louisiana and Texas.....	432
Supreme Court decisions.....	127
Survey appropriation.....	64
Sylvanite, data on.....	317

T

Talc, production.....	136
Tampico field.....	443
Tantalum, analysis of.....	323
demand for.....	120
Taylor on Foster Bill.....	167
Technical terms.....	392
Tennessee mining boom.....	121
Texas silver production.....	309
Thompson, J. W. (cut).....	512
Throat telephone.....	330
Tin, federal aid for.....	116
in Alaska.....	76
Tin ore, sample of.....	256
Tintic District Bulletin.....	68
Toponah, Baston report on.....	175
Topographic maps, in popular language.....	274
Tucson experiment station.....	355
Tungsten, prices.....	302, 398
secondary enrichment.....	286
foreign market for.....	393
profit in.....	260
as an alloy.....	214
development.....	222
low grade.....	362
Tupper, C. A.....	350

U

Useful minerals.....	68
Utah, mineral output.....	321
Copper Company.....	190
News notes.....	113, 277, 331, 383
Promontory district.....	417
Special examination.....	311
Surveys.....	256
Unions and efficiency.....	439

V

Vaile, Joel F., dies.....	232
Vanadinites, use of.....	316
Vanadium in Colorado.....	23
in Peru.....	400
Van Wageman, F. W.....	496, 526
Vernadsky.....	400
Virginia mining boom.....	121

W

Washington, coal markets.....	489
Waste in mining.....	531
White, David.....	211
White, Dr. I. C.....	522, 526
Whitney, W. R.....	493, 528, 537, 549
Wickscham book collection.....	61
Willard, H. E. (cut).....	495
Williams, W. A.....	526
Withdrawals.....	531
Wolfin, H. M., sketch with cut.....	324
succeeds Paul.....	242

Woodbridge, T. R., on sampling.....	441	Zinc, sales of.....	539
Wood tin.....	329	importations.....	496
Working in thirty-six States.....	218	sold ahead.....	276
Wyoming, foundry coke.....	411	imports.....	286
		production.....	315
Z		in northern Arkansas.....	182
		rule for appraisement.....	455
Zang, Adolph, dies.....	516	Head address.....	177

